

CLAIMS

1. A fire alarm device comprising:
emission control means activated by a signal from fire detection means that
detects an occurrence of fire; and
5 smell-emitting means activated by the emission control means, characterized
in that
the emission control means includes smell condition-setting means that sets an
emission start time of smell to be continuously emitted, or sets an emission time
period, emission intervals, and an emission concentration of smell to be intermittently
10 emitted, and the emission control means activates the smell-emitting means according
to a smell condition set by the smell condition-setting means.
2. The fire alarm device according to claim 1, characterized in that the smell-
emitting means includes a high-pressure gas cylinder having a gas injection orifice
15 provided with a solenoid valve, and opens the solenoid valve based on a signal from
the emission control means so as to emit smell.
3. The fire alarm device according to claim 1, characterized in that the smell-
emitting means starts rotational motion based on a signal from the emission control
20 means, and is a screw-type smell-emitting means which is formed such that an air
pressure gradually increases towards an injection opening provided with a smell-
emitting substance, and which converts rotational motion to air compression.
4. The fire alarm device according to claim 1, characterized in that the smell-
25 emitting means includes a hemispherical container provided with a smell-emitting
substance, and a smell-emitting opening that is opened according to a signal from the
emission control means, and the smell-emitting means is placed on the ceiling.
5. The fire alarm device according to claim 1, characterized in that the smell-
30 emitting means includes a smell-emitting substance provided with a heating element
that is heated based on a signal from the emission control means, and diffusing means
for diffusing smell emitted by heat generation of the heating element.

6. The fire alarm device according to any one of claims 1 to 5, characterized in that the smell-emitting means are provided along an evacuation route with a space therebetween.

5 7. A fire alarm method, characterized in that smell-emitting means are provided along an evacuation route with a space therebetween, and when a fire occurs, emission control means, which is activated based on a signal from fire detection means, controls to activate the smell-emitting means from one placed in a vicinity of a spot of the fire and gradually towards one placed far from an evacuation exit, so as to
10 emit smell from the smell-emitting means and thereby giving warning of fire.

8. A fire alarm method, characterized in that, when a fire occurs, emission control means, which is activated based on a signal from fire detection means, activates smell-emitting means that emits an awakening smell so as to emit the smell,
15 and then activates smell-emitting means that emits an irritating smell so as to emit the smell, thereby giving warning of fire.

9. A fire alarm method, characterized in that smell-emitting means are provided along an evacuation route with a space therebetween, and when a fire occurs,
20 emission control means, which is activated based on a signal from fire detection means, controls to activate the smell-emitting means intermittently so as to emit smell such that, in an initial stage of the intermittent operation, emission intervals are long and an emission time period is short, and then as time elapses, the emission intervals are reduced and the emission time period is increased gradually, thereby giving
25 warning of fire.